

Notice of Allowability

Application No.

09/925,939

Examiner

Tarifur R Chowdhury

Applicant(s)

SHOJI, HITOSHI

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2871

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on 07/21/04.
 2. ☒ The allowed claim(s) is/are 1-26.
 3. ☒ The drawings filed on 09 August 2001 are accepted by the Examiner.
 4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 07/28/03; 04/07/04; 07/21/04
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

Allowable Subject Matter

1. Claims 1-26 are allowed.
2. The following is an examiner's statement of reasons for allowance:
3. As to claim 1, the prior arts of record do not anticipate or render obvious to one skilled in the art an electrooptical unit comprising various elements as claimed, more specifically a flexible board including a plurality of front side terminals formed on a front-side thereof, a plurality of rear-side terminals formed on a rear side thereof and a plurality of through holes enabling electrical connection of the front-side terminals and the rear-side terminals, the rear-side terminals being electrically connected with the panel-side terminals via conductive material, and the front-side terminals being electrically connected with electronic components.
4. As to claim 18, the prior arts of record do not anticipate or render obvious to one skilled in the art an electrooptical unit comprising various elements as claimed, more specifically a flexible board including first terminals formed on one side of the flexible board, second terminals formed on an opposite side of the flexible board, and through holes formed through the flexible board electrically interconnecting the first and second terminals, wherein the second terminals are electrically connected to the panel terminals and the first terminals are electrically connected to an electronic component.
5. As to claim 23, the prior arts of record do not anticipate or render obvious to one skilled in the art an electrooptical unit comprising various elements as claimed, more specifically a flexible board formed with through holes, the flexible board including first terminals formed on side of the flexible board and second terminals formed on an

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opposite side of the flexible board, the first and second terminals being electrically interconnected through the through holes, the first terminals being electrically connected with the connector electrodes and the second terminals being electrically connected with the panel terminals, the electrooptical panel, the flexible board, and the electronic component having a common overlapping region.

6. As to claim 24, the prior arts of record do not anticipate or render obvious to one skilled in the art an electrooptical unit comprising various elements as claimed, more specifically a flexible board formed with through holes, the flexible board including first terminals formed on side of the flexible board and second terminals formed on an opposite side of the flexible board, the first and second terminals being electrically interconnected through the through hole and overlapping each other as viewed in plan, the first terminals being electrically connected with the connector electrodes and the second terminals being electrically connected with the panel terminals.

7. As to claim 25, the prior arts of record do not anticipate or render obvious to one skilled in the art an electrooptical unit comprising various elements as claimed, more specifically a flexible board formed therethrough with through holes and including first terminals on one side of the flexible board and electrically connected with the connector electrodes, the first terminals being formed at a wider pitch than a pitch of the panel terminals, and second terminals formed on an opposite side of the flexible board from the first terminals and electrically connected with the panel terminals, the first terminals and the second terminals being electrically interconnected through the through holes.

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8. As to claim 26, the prior arts of record do not anticipate or render obvious to one skilled in the art an electrooptical unit comprising various elements as claimed, more specifically a flexible board formed therethrough with through holes and including first terminals on one side of the flexible board and electrically connected with the connector electrodes, and second terminals formed on an opposite side of the flexible board from the first terminals and electrically connected with the panel terminals, the first terminals and the second terminals being electrically interconnected through the through holes, each first terminal being formed wider than a corresponding one of the second terminals.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tarifur R Chowdhury whose telephone number is (571) 272-2287. The examiner can normally be reached on M-Th (6:30-5:00) Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on (571) 272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TRC

September 22, 2004



TARIFUR R. CHOWDHURY
PRIMARY EXAMINER